

Title (en)

SAFETY SWITCHING DEVICE FOR DETECTING FAULTY INPUTS

Title (de)

SICHERHEITSSCHALTVORRICHTUNG ZUR DETEKTION VON FEHLERHAFTEN EINGÄNGEN

Title (fr)

DISPOSITIF DE COMMUTATION DE SÉCURITÉ POUR DÉTECTER DES ENTRÉES NON CONFORMES

Publication

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Application

**EP 14732171 A 20140620**

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Abstract (en)

[origin: WO2014206885A1] The invention relates to a safety switching device (10) for deactivating a technical system (12) in a failsafe manner, comprising a first and at least one second input (30, 30'). The first input (30) receives a first input signal (38) by means of a first input circuit (32), and the second input (30') receives a second input signal (38') by means of a second input circuit. The first and second input circuit are divided into a first (I) and a second circuit (II) which are galvanically separated from each other. A first signal input circuit (40), a first threshold element (44), and a first coupling element (42) of the first input circuit (32) as well as a second signal input circuit (40'), a second threshold element (44'), and a second coupling element (42') of the second input circuit are arranged in the first circuit (I). The first circuit (I) further has a first testing device (46) with a third coupling element (48), the first testing device (46) being designed to interrupt a current path from the first and second threshold element (44, 44') to a ground terminal (64). A second testing device (52) and a first discharge circuit (54) of the first input (30) and a third testing device (52') and a second discharge circuit (54') of the second input are arranged in the second circuit (II), said first, second, and third coupling element (42, 42', 48) connecting the first and second circuit (I, II) to each other. (Fig. 1)

IPC 8 full level

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